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(11) EP 0 862 882 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication: 09.09.1998 Bulletin 1998/37

(51) Int. Cl.6: A47J 31/40

(21) Application number: 98101852.6

(22) Date of filing: 04.02.1998

(84) Designated Contracting States:

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC

NL PT SE

Designated Extension States:

AL LT LV MK RO SI

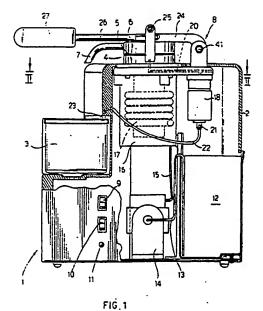
(30) Priority: 05.02.1997 IT MI970222

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(54) Express-coffee machine loadable with wafers

(57) Express-coffee-machine loadable with wafers for family or professional use including a casing (2), a unit (4) for pressing the wafer (36), into which the water is led through a boiler (16) which is arranged below said unit (4), permitting an opening from the above of said unit (4).



illustrated in Fig. 6, the head 6 is initially lowered onto the head 5 by making a first rotation of the arm 24 hinged with the unit 4, until the head 6 engages the head 5 as Fig. 5 shows.

In order that the fork 28 is in a proper engagement 5 position with respect to the projection 31, when the two heads 5 and 6 are into contact, the lever 26 contains a resilient element 34 (Fig. 6) in particular a spring, so that when the closing device 8 is not operating, the lever 26 is moved away of an opening angle with respect to 10 the arm 24 and thereby permitting the fork 28, which in turn is integral with the arm 24, to attain the proper engagement position.

The opening angle of the lever 26 with respect to the arm 24 is regulated by means of blocks 35. Thereafter, a further pressure on the lever 26 causes a rotation of the lever 26 with respect to the joint 25, by engaging the cavities 30 of the lever 26 with the projections 31 of the fixed head 5.

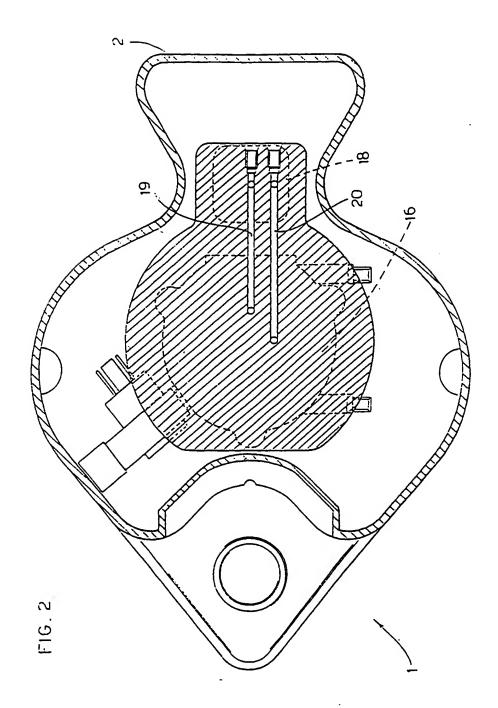
Said cavities 30 have flared edges in order to facilitate the insertion into said projections 31. According to what explained, there are clear the advantages of the coffee machine according to the invention, which is provided with a simplified closing unit, which makes the operations of loading and cleaning thereof easier.

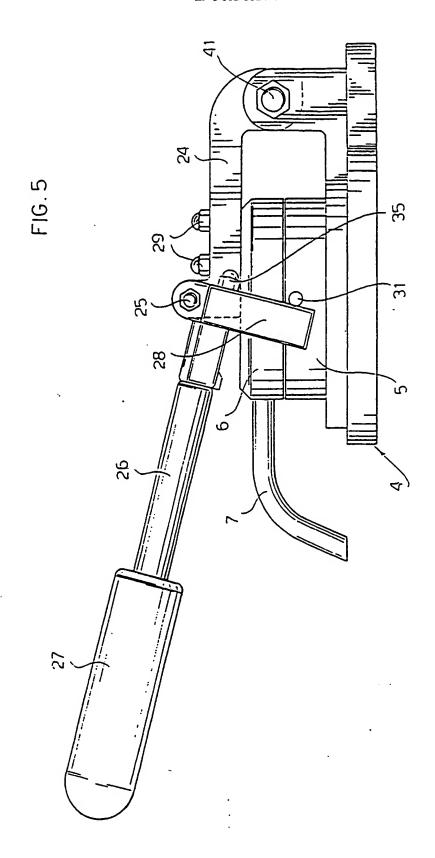
Claims

- 1. Express coffee machine loadable with wafers including a casing (2), a unit (4) for the pressing of 30 the wafer (36) in which the water is led through a boiler (16), characterized in that said unit (4) includes a fixed lower head (5) and a movable upper head (6) which can be engaged and disengaged to each other by means of lever closing 35 means (8), and that said boiler (16) is arranged below said unit (4).
- 2. Coffee machine according to claim 1, characterized in that said lever dosing means (8) includes an arm 40 (24) carrying said movable upper head (6), hinged at its first end portion with the structure carrying said fixed lower head (5) and connected at the other end portion by means of a joint (25) with a control lever (26).
- 3. Coffee machine according to claim 2, characterized in that said control lever (26) is fixed integrally with a fork (28), at the ends of which some cavities (30) engaging projections (31) provided on the fixed head (5) are provided, said cavities (30) being provided with flared edges in order to facilitate the introduction of said projections (31) therein...
- 4. Coffee machine according to claim 3, characterized in that said control lever (26) contains a resilient element (34), in particular a spring.

5. Coffee machine according to claim 3, characterized in that said control lever (26) co-operates with blocks (35) for regulating the opening angle of the same lever with respect to said arm (24).

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EUROPEAN SEARCH REPORT

Application Number EP 98 10 1852 .

	DOCUMENTS CONSID			Relevant	CLASSIFICATION OF THE
Category	of relevant pass			to claim	APPLICATION (Int.CL6)
A	US 2 451 195 A (BROWN) 12 October 1948 * column 4, line 18 - column 8, line 19; figures 1-10 *			1-5	A47J31/40
A	US 3 007 392 A (PEC 1961 * column 1, line 41 figures 1-3 *			1-3	
A	US 5 531 152 A (GAR 1996 * column 5, line 58 figures 4,5 *		_	1	-
A	US 3 403 617 A (LAMPE WILLY G) 1 October 1968 * column 2, line 9 - column 4, line 72; figures 1,2 *			1	
A	DE 296 01 233 U (J 13 June 1996	J DARBOVEN GM	1BH & CO)		TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	EP 0 615 713 A (EUR September 1994				A47J
			ciaims	L	Examiner
	Place of search THE HAGUE	7 May		Rod	art, P
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